VOLUME ONE, NUMBER THREE

25

NOVEMBER 1948

THE SHIPBUILDERS OF HUMBOLDT BAY (PART ONE)

One of the most nearly inaccessible points on the coast of California, and therefore one of the last to be settled by white men, Humboldt Bay nevertheless became one of the early centers of wooden shipbuilding on the West Coast. Until after World War I, its shippards turned out a steady series of wooden craft that ranked with the finest built anywhere on the Pacific Coast.

As a principal gateway to the redwcod country, the Bay attracted a thriving commerce; the ships that called there supported a marine repair industry which attracted shipwrights; and, having an abundant local supply of Douglas fir, the shippards soon began to undertake new construction as well as repair work. Many master builders, after a stay in Fureka, moved to other ports along the coast. This was particularly true when the Olympic Peninsula of Washington was opened to lumbering in the late nineties, and several Humboldt Bay shipbuilders transferred operations to Grays Harbor at that time.

The shipbuilding history of Humboldt Bay is therefore inextricably linked with the history of wooden shipbuilding on the Pacific Coast in general. We have been fortunate in obtaining accounts of several builders from their close kin, and in this and succeeding issues of LOG CHIPS we shall tell the history of shipbuilding in Humboldt County from the biographical point of view.

EUPHRONIUS COUSINS

One of the earliest Humboldt Bay ship-builders was Euphronius Cousins, who was born in Hancock County, Maine, about 1835. As a young man he operated a shippard at Ellsworth, Maine, and in 1865 came to Eureka. In partnership with his younger brother Heman Dickerson Cousins, he established a shippard on land belonging to William Carson. The vessels built by E.& H. Cousins at Eureka are listed in the next column.

Cousins was also interested in lumbering; in partnership with Joseph Russ he built Cousins' Mill on Gunthers Island, and in 1883 sold out to David Evans, who formed the Excelsior Redwood Co. Together with E.J.Dodge and C.H.Heney, Cousins next established the Eel River Valley Lumber Company. During this period he also served as the Eureka agent for Bureau Veritas.

After 10 years at Eel River, Cousins tried his hand at mining in Arizona; but in 1896 he returned to Eureka, and in 1900 he established a shipyard at Aberdeen, on Grays Harbor, in parthership with W.H. Mc

		-		
-	Name .	Rig	Ton	s Owner
-		1865		THE PERSON NAMED IN
-	OCIAN EXPRESS	Sch		
-	HESPERIAN	Brig	241	Dolbeer & Carson
-		1867		
	MAY QUEEN	Sea	123	
	DASHING WAVE	Sch	148	
	WESTERN BELLE	Bktn	275	
		1868		
	LAURA MAY	Sch	127	H. Winkelman*
	NAUTILUS	Brig	173	Matthew Turner
		1875		
	MARY E.RUSS	2mSch		
	HUMBOLDT	Stmr	388	W.J. Sweasey*
		1881		
	MAGGIE C.RUSS	3mSch	196	THE PART OF THE
	JOSEPH RUSS	3mSch	247	
		1882		
	RUBY A. COUSINS	2mSch	197	E.J.Dodge*
		1883		
	LILLEBONNE	3mSch	218	Melanie Cousins*
	(* 7	part our	er)	

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LOG CHIPS is produced approximately every two months at 7606 Foster Street, Washington, 19, D.C., by John Lyman. Price, \$1 per volume (12 issues).

Whinney, and he died there on 9 June 1901.
Cousins was married in Maine to Sophia
Blaisdell, and they had 5 children. In
1880, after her death, he was married in
San Francisco to Melanie Lalouette of Lillebonne, France.

Of Cousins' ships, DASHING WAVE was wrecked in the Bering Sea while on a codfishing voyage, and WESTERN BELLE was lost with all hands on her maiden voyage. LAURA MAY went ashore in fog near Coos Bay in 1874 and became a total loss. The brig NAUTILUS was built for Captain Turner for his trade with Tahiti. Turner designed the brig himself in accordance with John W. Griffiths' theories of naval architecture, and she proved so successful that he went into shipbuilding on his own account at San Francisco.

The steamer HUMBOLDT, a regular trader to San Francisco, was lost on Point Gorda in September 1895. MAGGIE C. RUSS was wrecked at San Blas, Mexico, in June 1903; while JOSEPH RUSS, which cost \$22,000, was lost on Chirikof Island, Alaska, in May 1912 while fishing cod. RUBY A.COUSINS was lost on Kodiak Island in March 1917 as the HAROLD BLEKUM, and LILLEBONNE capsized in August 1912 while serving as a garbage barge for the city of Oakland. California.

WILLIAM H. MCWHINNEY

William Herbert McWhinney was born 11
July 1853 at St. Andrews, New Brunswick.
At the age of 4 he moved with his parents,
Mr. and Mrs. John McWhinney, to Warwig, N.
B., and on 2 April 1874 he came to Eureka.
He stayed there only a year before moving
on to Washington Territory, where he
worked for a time for a man named Jameson,
logging at various places; and in 1876 he
went to Vancouver, B.C., where he remained
until 1880.

Then he returned to Eureka, where he engaged in contracting and ship repairing and operated a marine railway. He became an American citizen in 1882. In March 1899 he moved to Grays Harbor with George Hitchings and worked for a year in Hitchings' new yard there.

In 1900 the shipbuilding firm of McWhinney & Cousins was formed, to establish a yard at a site in East Aberdeen between the West & Slade mill and the Wilson Bros. mill. Their first contract was with Pollard & Dodge of San Francisco for a steam schooner. Vessels built by McWhinney & Cousins and later by W.H.McWhinney were:

1900

CORONADO StSch 578 Pollard & Dodge F.M. SLADE 4mSch 737 West & Slade

1901

ELDORADO 4mSch 881 Sanders & Kirch-

mann

WATSON A. WEST 4mSch 318 West & Slade 1902

EDWARD R. WIST 4mSch 835 West & Slade

CORONADO, launched in September 1900, was lost in April 1917. She had caught fire off Eureka, and was taken in tow by the steam schooner HOQUIAM, but foundered off Point Arena. F.M.SLADE got ashore on the Peruvian coast in 1914 on a voyage from Grays Harbor to Supe. Peru; and was floated badly damaged, sold to owners in Callao. and renamed HELVETIA.

ELDORADO was abandoned in June 1913 in 31°S, bound from Astoria to Antofogasta; while WATSON A.WEST was wrecked on San Miguel Island, off California, in Febru-

ary 1923.

EDWARD R.WEST, a sister to ELDORADO, was launched in July 1902. A few days later, on July 26th, the shipyard, which included a large shed under which the vessels were built, was burned to the ground, along with an adjacent block of buildings. The schooner had a narrow escape, and her spars, which were still being worked on ashore, were burned. The WEST had another escape from fire at Sydney, Australia, in December 1918, when much of a copra cargo she was loading was burned; she was finally lost on Fakarava Island in the Tuamotos in May 1922.

In 1904 McWhinney built the stern wheel towboat SKOCKUM, 202 tors, for Burrows & Stockwell. This vessel was later owned on the Columbia River, where she was rebuilt in 1930, and scrapped in 1945.

From 1905 to 1907 he was Sheriff of Chehalis (new Grays Harbor) County. Following this term he retired from public life to attend his own property interests.

In 1908 he built a marine railway for repairing boats and scows in South Aberdeen. His last new construction was:

1910

HARBOR QUEEN StrnWhl 126 James Wilson 1912

PETREL Stm Tug 50 Paulson Lumb. Co.

McWhinney later sold the ways to Chris Endersen of Hoquiam (another former Humboldt Bay shipwright). He died 9 March 1939. His son, Captain Earl McWhinney, a towboat master of Seattle, has furnished much of the information in this account.

BOOK REVIEWS

SOME RECENT FOREIGN BOOKS

In contrast to the state of affairs that has prevailed in this country for several years, where, except for Kerchove's "International Maritime Dictionary", no significant works in the field of maritime literature have been published, there has recently been published in foreign countries a wide variety of interesting books on many aspects of the sea and ships.

Readers should not be discouraged by the fact that some of these are in foreign languages. With the aid of a pocket dictionary and a little patience, one can readily acquire sufficient competence in any of the Romance or Nordic languages to read works that deal with a familiar branch of technology. It is much easier to read matter of this nature than novels or the kind of "literature" generally used in academic instruction.

HARDY, A.C., "Sea Food Ships"; with drawings by Lawrence Dunn; 246 pp; index; London; Crosby, Lockwood & Son, 1947; price 12/6 (\$2.50).

By a well-known English writer on shipping topics, this book sometimes gives the impression more of having been compiled from technical journals than of being written from actual observation and experience. None the less, it is a well written and illustrated account of all types of vessel currently used in sea fishing in civilized lands.

HUGHES, Henry, "Immortal Sails; a Story of a Welsh Port and Some of its Ships: 240 pp; 32 plates; London; Robert Ross & Co., 1946; price 15s (\$3)

Portmadoc was founded in 1824 by William A.Maddock, and as a shipping point for locally quarried slate soon became a shipbuilding center. The building of wooden craft ceased in 1878, as it did elsewhere in the British Isles about that time; but it was revived in Portmadoc in 1889 with the development of a characteristic type of three-masted topsail schooner for the Newfoundland trade.

Although "Immortal Sails" leaves a little to be desired in the way of more information on the building and operating of the vessels, it is full of fascinating detail on the order of Runciman's "Collier Brigs". Col. Hughes has also written "Through Mighty Seas", a voyage narrative.

WORGESTER, G.R.G., "Junks and Sampens of the Opper Yangtze", 97 pp, 40 plates; Shanghai; Chinese Maritime Customs, 1940.

"Notes on the Crooked-bow and Crockedstern Junks of Szechwan", 82 pp, 21 plates, same publishers, 1941.

"The Junks and Sampans of the Yangtze", Vol.I. 28 & 245 pp. 83 plates, 1947.

These three publications of the Chinese Maritime Customs give for the first time in English a comprehensive description of the design, construction, and operation of the many different types commonly lumped together under the single heading "junk". And yet, although many variations are discussed and illustrated, we are given to understand that more volumes are to come, and the surface has only been scratched!

The Chinese inflation has made it possible to obtain these volumes in this country at fairly reasonable figures; and although our copy of one was marked at \$300,000, it cost us less than \$5 US.

LECLEROQ, W.L., "Wind in de Zeilen; het Verhaal van een Reis per Zeilschip van Australië om Kap Hoorn Naar Engeland, in het Jaar 1932"; 363 pp; illustrated; Amsterdam; van Kampon (1948).

First published in 1933, this is an account of a voyage in the Finnish four-masted back HERZOGIN GECULIE, by a Hollander well known as a nautical historian. The book is well illustrated from photos, and also has deck-, sail-, and rigging-plans and a route chart. An appendix gives a list of Erikson's ships, passages in the Australian grain trade 1921-1932, and an epitome of CECILIE's voyages.

KLFM, Knud "De Danskes Vej; Rids af Dansk Søhistorie"; 248 pp, 168 figs; A.F.Høst, København, 1941.

"The Danes' Way" was produced under German occupation; perhaps because of it. It is a handsomely produced, beautifully illustrated, detailed account of the development of Danish ship types from the Viking longships to contemporary warships and merchant vessels. The author is director of the Kronborg Maritime Museum, and is thoroughly familiar with his field.

Of special interest to LOG CHIP's readers should be the chapter on 19th and 20th Century sailing vessels, which takes up such types as the galiot, galeas, jagt,

THE TONNAGE OF THE GREAT REPUBLIC

In working on the topic of the largest wooden ships ever built, one encounters two problems in connection with the dimensions and tonnage of GREAT REFUBLIC, built by Donald McKay at East Boston in 1853.

As pointed out by R.C. Anderson in "Mariner's Mirror", 1943, p.182, there is a discrepancy in the tonnage and registered dimensions of this vessel as first built, and as rebuilt after her fire. "Old measurement" at that time considered only beam and length in establishing tonnage; and since in rebuilding she was only cut down a deck, her maximum beam was unaltered (because of her tumble-home), and her length was diminished only by the amount of the rake of stem and stern in the height of the former spar deck. Her tonnage therefore should only have decreased slightly.

However, the pre-fire register gives her 335 x 53 x 38 ft, 4555 tons, and the rebuilt register 302 x 48-4 x 29-2 ft, 3356 tons.

The pamphlet "Description of the... GREAT REPUBLIC...by a sailor" (24 pp, Boston, 1853) actually written by Duncan McLean has a good set of profile and deck plans of the ship, which appear to have been fairly accurately engraved at the scale of 1/96. If this indeed is the case, her maximum beam was about 49'6", and longth about 310', and the recorded register dimensions lend themselves to the suspicion that there was some fudging to increase her apparent tonnage, for reasons that can only be guessed at today.

Another thorny problem concerns the "new measurement" tonnage of GREAT REPUBLIC as first built. Her gross tonnage as rebuilt was 2821 new measurement; and thanks to the staff of the National Archives, who looked up her last document the other day, we can break it down as follows:

Under tonnage deck...... 1773.40
Between docks...... 230.60
Enclosures above deck..... 217.06

Thus her underdeck tonness was 2604. According to the McLean pamphlet, GREAT REPUBLIC originally had four decknouses, one 23 x 16, one 25 x 16 x $6\frac{1}{2}$ high, one 40 x 12, and one 17 x $11\frac{1}{2}$ "of the same height as the others". The sum of the internal volume of these four houses is about 90 tons.

This leaves only the volume of the

space under the spar deck to be determined. McLean's Plate 4 is a plan of the deck under the spar deck, which scales 10,230 square feet in area. With a length of 294 ft on this deck and a beam of 42,4 ft (inside), we get the quite reasonable value of 0.82 for the coefficient of area.

With the tumble-home, the maximum width of the spar deck was less; but the length was greater, and also the outline of the spar deck would be somewhat fuller. The product of length 310 ft, beam 40 ft, and area coefficient 0.85 gives 10,540 as the area of the spar deck. The mean of these two areas times the mean height between decks (7 ft) divided by 100 cubic feet per ton gives 727 as the tonnage under the spar deck.

A good check on this last figure can be had by comparing the tonnage under the third deck, already given as 830. Assuming tumblehome in the midsection to balance flare at the ends, the two volumes would be proportional to the respective tween-deck heights. The height bewteen the second and third decks was 8 ft. Seven-eighths of 830.6 is 727.

The "new measurement" tonnage of the original GREAT REPUBLIC can thus be computed as follows:

The last figure is probably accurate to plus or minus 15 tons, and can be compared with FOANOKE's 3539 and WYOMING's 3730.

THE LARGEST TWO-MASTED SCHOONER

As a follow-up on our notes on large sloops, we have some material on the largest two-masted schooners. KATE WENT-WORTH, 300 tons new measurement, 282 old, built at Castine, 1864, was the largest built on the Penobscot. OLIVER AMES, 456 tons new measurement, built at Berkeley, Massachusetts, in 1866, is generally credited with being the largest two-master on the East Coast. However, these three have been overlooked:

RCBERT CALDWELL 446 old 466 new WALTER RALEIGH 487 "
LANGDON GILMORE 497 "

All three were built in 1856 by C.C. Jerolomon at Belleville, New Jersey, for D.C.Murray of New York and other owners.

SAILING SHIP NEWS

ALBATROSS, Swed.aux.4m.sch. 23 Sept.arr London on last leg of Pettersson roundthe-world oceanographic expedition.

ALBERT LEO SCHLAGATER, Ger. aux. bark. Was allocated as reparations to U.S. Navy, but was transferred to Brazil, renamed GUANABARA, and towed down by a Dutch tug.

AMERIGO VESPUCCI, Ital.aux.ship. 29 Aug.

arr Dublin from Fayal.

C. A. THAYER, 3m. sch. 27 Aug. arr off Cape Flattery, 11 d from Unimak Pass, with . 210,000 cod; towed to Paulsbo by DOUG-LAS of Puget Sound Tug & Barge Co.

CALI, m/s. Originally the barkentine HAWAII, built at Dumbarton, Scotland. in 1900 for Hind, Rolph & Co., San Francisco. More recently the Mexican motor schooner HIDALGO. 9 Jan. 1948 left Guayaquil for Santiago, Cuba. 27 Jan. beached at Grand Cayman and abandoned.

CHRISTIAN RADICH, Nor. tr. ship. 9 August

left New York for Narvik.

DAR POMORZA. Pol. tr. ship. 5 Aug. left Liverpool; arr Bergen 12th. 22 Aug.left Bergen; arr Gothenburg 26th. 28 Aug. left Gothenburg for Guynia.

DUQUESNE, Fr. ship. Built in 1901, this vessel is now lying as a hulk in the Basin d'Arcachon, having until recently stored coal for the trawlers of the Socides Chalutiers d'Arcachon,

EAGLE, USOG tr.bark. 8 June left New London; 20 June arr Pta del Gada, Azores; 23 June left; 29 June made Eddystone. 12 July left London; 21 July arr Santa. Cruz, Canary Is; 24 July left; 13 Aug. arr New London. Cruising in New England waters in September.

EFFIE M. MORRISSEY, 2m. sch. 18 Aug left New Bedford for Cape Verde Is.

FREDERICK P.ELKIN, Br. 3m. sch. 8 Aug. arr Barbados from Hampton Roads (36 d)

GASPAR, Port.aux.3m.sch., 309 tons, built Figueira da Foz 1918. 16 Sept.abandoned in hurricane 1100 miles off New York; crew rescued by USCGS BIBB and taken to Argentia.

GRACIE S., aux. 2m. sch., built at San Francisco 1893 by Union Iron Works for a bar pilot boat. Lately owned by Sterling Hayden ("Sea Breezes" Apr. 1948); now bought by Seattle owners to be rerigged with bowsprit and topmast for a training ship.

GUAYTECAS, Pan. bark. Left Durban 14 Oct. 1947; arr Rio de Janeiro 1 Jan. 1948.

JEANNE D'ARC, Fr. ship built in 1901 as BELLEM. Now lying at Arcachon with DUCTERNE.

LAWHILL, Port, 4m. bark. 21 Sept.left Durban; arr Lorenco Marques 23 Sept.

PAMIR, New Z.4m.bk. 18 Aug arr Auckland from Antwerp (103a)

ROSSINANTE, aux. 3m. sch. Built in the USA as PRISCILLA ALDEN in 1918, she is listed in current Lloyds as a Soviet research vessel, out of Vladivostok.

THOMAS W. LAWSON, 7m, steel sch. Bowdoin B. Crowninshield, designer of this vessel and hundreds of other sailing ships, died at Marblehead on 12 August.

YXPILA, Finn, 4m, sch. 11 Aug arr Helsinki from Hango; 2 Sept towed into Farosund alcak, bound for Gdansk.

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BOOK REVIEWS (continued from p. 27)

and ever, as well as the more familiar ship, brig, schooner, and cutter. For steamship fans, there is a chapter on motorships and steamers, which commences with CALEDONIA, built at Port Glasgow in 1915 and brought to Denmark in 1819.

BUILDERS OF THE FOUR-MASTERS

Since publishing the first two installments of the list of four-masted schooners
built on the East Coast, the third portion
of which appears in this issue on page 31,
we have had an opportunity to consult early
issues of the Record of the American Bureau of Shipping and its predecessor, the
American Shipmaster's Association.

The following builders' names can now be added to pages 6 and 17 to 20 of this volume of LOG CHIPS:

William Adams & Son built ELVIRA J. FRENCH, KHLV.

John Agnew & Co. built WILLIAM T. HART. KBMG.

H.M.Bean built KING PHILIP, KDMW;
POCAHONTAS, KFBC; CORNELIUS HARGRAVES,
KGNF; MILLIE G. BOWNE, KGQH; WILLIAM
JOHNSON, KGWB; ALICE HOLBROOK, KHJR;
MARJORIE, KHSG; KATHERINE D.PERRY, KJHQ;
FANNY ARTHUR, KJTH; R.& T.HARGRAVES,
KLCS; MARY MANNING, KMCS; HENRY W.CRAMP,
KMRQ; ALMA E.A.HOLMES, KMTR; and ANNA
MURRAY, KPFD.

John M. Brooks built HOWARD SMITH, KGCR; HENRY L. PECKHAM, KJRN; and LOUISE H. RANDALL, KLFP.

Brown & McDonald built NIMBUS, KHGF; YOUNG BROTHERS, KHSD; and DANIEL B. FEARING. KJNQ.

Carleton, Norwood & Co.built ROSE E. MURPHY. KRHD, ex-ANNIE.

David Clark built SAVANNAH, KRGS.

Cobb, Butler & Co. built GENEVA, KQGV E.S. Crosby built FRANK T. STINSON, KFBD; and SARAH C. ROPES, KJVT.

W.C.Crossley built JOHN H.PLATT, KGSW George E.Currier built J.R.TEEL, KGQC; CLARENCE H.VENNER, KGTV; and MARIA O.TEEL,

Gardiner G. Deering built JOHN S. AMES, KGRQ; and WESLEY M. OLER, KJFV

Dunn & Elliott built ELLA M. WILLEY, KJRL.

Gesner & Marr built W. WALLACE WARD, KFHS.

G.A. Gilchrist built LENA F.DIXON, KHRV; CARRIE A. COOKSON, KJLP; and HENRY B.FISKE, KRGD.

William F. Green & Son built SENATOR SULLIVAN, KHJN.

Eben Haggett built EBENR. HAGGETT, KHVG. Howard H. Hanscom built NAPOLEON BOUGH-TON, KGCF; JAMES G. BEECHER, KGTD; and WILLIAM NEELEY, KHDP.

J.Manchester Haynes built ANDREW ADAMS, KDQH.

Jackson & Sharp built FRANCIS C.YAR-NALL, JVSD; F.& T.LUPTON, KGBW; MARJOHY PROVN, KGMS; JOB H.JACKSON, JR, KGTB; JAMES JUDGE, KGVN; and FLORENCE C.MEGHE, KJQV.

N.Potter Kean built HAROLDINE, KCMQ. Kelley & Spear built MASSASOIT, KGJW; MASSACHUSETTS, KNSH; and GLENWOOD, KHRL.

McDonald & Androws built MSTELLE PHINNEY, KJSM; and JOHN W.LINNELL, KHWB.

John L.Mills built ARTHUR McARDLE, KJVC; CHAUNCEY E.BURK, KJWT; and EDWARD J.BERWIND, KLTS.

Charles V. Minott built MEROM, KJTP.
Morris & Mathis built THOMAS A. WARD,
KJSW.

B.W.& H.F.Morso built CHARLES E.BALCH, JWGH; AUGUSTUS HUNT, JWSC; C.B.CHURCH, KCSG; T.A.LAMBERT, KDQG; and JOHN F.RAN-DALL, KJMG.

The New England Shipbuilding Co.built AGNES MANNING, KDGS; SARAH W.LAWRENCE, KDLM; CASSIE F.BRONSON, KDLR; LUCY H. RUSSELL, KDVJ; VIKING, KFCM; GRACIE D. BUCHANAN, KFDM; CALVIN B.ORCUTT, KFDQ; TECUMSEH, KGDM; JOHN PAULL, KGJR; EDITH OLCOTT, KHDQ; GEORGE BAILEY, KHLN; JOHN HOLLAND, KHLW; MARY ADELAIDE RANDALL, KHWT; STELLA B.KAPLAN, KJCF; JENNIE S. BUTLER, KJTB; and LIZZIE H.BRAYTON, KJWP.

F.C.Pendleton built PENDLETON BROTH-

ERS, KPLC.

Percy & Small built CORDELIA E. HAYS, KRCS; and MARGARET WARD, KRVF.

A.R.Roed & Co. built HATTIE P.SIMPSON, KJSF.

William Rogers built BENJAMIN F.POOLE, KDMG; JACOB S.WINSLOW, KGHQ; R.F.PETTI-GREW, KGWQ; and ELEAZER W.CLARK, KJBC.

Sawyer Bros.built EDNA M. CHAMPION, KLWM; and HARRY A. BERWIND, KMLG.

T.J. Southard built EDITH L. ALLEN, KHFG.
Loavitt Storer built JAMES V. FITCH,

Samuel W. Tilton built WILLIAM M. BIRD,
KCTP; BERTIE & MAUD, KDWQ; WILLIAM K.
PARK, KGPS; EDITH BERWIND, KGRL; CHARLES
M. PATTERSON, KHJP; SAMUEL W. TILTON, KHTN;
ABEL E. BABCOCK, KJQT; MATILDA D. BORDA,
KJTC; GEORGE TAULANE, KLHR; and WILLIAM
J. LIPSETT, KLTH.

N.E. Vinal built JOHN K. SOUTHER, KGBF. Charles Ward built SAGAMORE, KJLM. George L. Welt & Co. built ISIAH HART,

SUSIE M.PLUMMER, KHPR (page 16), was built by J.A.& G.A.Creighton.

LOG CHIPS 31 NOVEMEER 1948 FOUR-MASTED SCHOONERS BUILT ON THE EAST COAST (Part 3)

	FOUR-MASTED SCHOON	ERS BUI	LT ON THE	EAST COAST (Part 3)love Gmax
	Name	Gross	Signal	Year	Builders
		Tons	Letters	Place built	
		201	ing -	1901 (continued)	
	KENWOOD	929	KRJQ	Boston, Massachuser	tts W. McKie 1000 A 300030
	L. HERBERT TAFT	1492	KRJV -	Thomaston, Maine	Dunn & Elliott
	H. HERDERT LACE	TIJO	raled m	1902	are Print Reals 3
	TITTE M DADCOME	CEE	KRIG and		Vallow Smann & Co. Vol.
	LIZZIE M. PARSONS	655		Path, Maine	Kelley, Spear & Co.
	PERRY SETZER	1392	KRTB 983	Bridgeport, Conn.	Green Bros.
	MARGARET WARD	1074	KRVF	Bath, Maine	Percy & Small
	MARTHA E. WALLACE	1108	KRVM	Port Jefferson, N.	
	HARRY T. HAYNARD	1203	KR:/L	Thomaston, Maine	Washburn Bros.
	SAMUEL P. BOWERS	626	KRWM	Path, Maine	Kelley, Spear & Co.
	FRED A. DAVENPORT	746	KSBR **	Path, Maine	James V. Hawley
Me -	SAMUEL W. HATHAWAY	1038	KSCF	Brewer, Maine	E. & I.K. Stetson
May June 0	EDGAR W. MURDOCK	1451	KSCG	Rockport, Maine	Carleton, Norwood & Co.
gen, ola	STANLEY H. MINOR	696	KSCJ	Newvastle, Maine	E. Haggett
Mr	(rn ALICE L. F			TOTAL VELV	AUGUSTA T. ESON T. AUGUSTA
	BRINA P. PENDLETON	933	KSON	Relfast, Maine	F.C.Pendleton
	CITY OF GEORGETOWN	599	KSDG THE	Bath. Maine	William Rogers
	ROBERT H. STEVENSON		KSDP	Bath, Maine	New England S.B.Co.
	TODESCE IN SERVINGON	1200	pridi	1903	188
	HOPE SHERWOOD	686	KSFQ.	Bath, Maine	New England S.B.Co.
					Kelley, Spear & Co.
	COHASSET	965	KSGP	Bath, Maine	Reiney, boear & oo.
	(rebuilt 1910				2 2 22 20 20 20
	FLORENCE M. PENLEY	1154	KSHP	Bath, Maine	Percy & Small
	FREDERIC A. DUGGAN	1137	KSLB	Bath, Maine	New England S.B.Co.
	GEORGE W. TRUTTT	690	KSMP	Bath, Maine	Kelley, Spear & Co.
	(rn GEORGE V.		JR.)		AND TAKE A DESCRIPTION OF DESCRIPTION
	JOHN B. BIEMILLER	1077	KSMQ	Richmond, Maine	E.S. Crosby
	FRANK BARNET	853	KSNW	Belfast, Maine	George A. Gilchrist
	ELIZABETH T. DOYLE	781	KSQJ	Boston, Mass.	John M. Brooks
	PENDLETON BROTHERS	970	KSOW	Belfast, Maine	F.C.Pendleton
		735	KSDG on!	Rockland, Maine	Ocbb. Butler & Co.
		1114	KSRJ	East Boothbay, Main	
- Mar		1376	ESRW	Brewer, Maine	H. & I.K. Stetson
alway will	QUINNEBAUG	598	KSTF	Mystic, Conn.	M.B.McDonald
cu, IM,	SALISBURY TO THE	597	KSTL	Eath, Maine	Kelley-Spear Co.
/2 p.	HENRY F. KREGER	1250	KSTV	Bath, Maine	E.S. Crosby
	HELEN THOMAS	1470	KSTV	Thomaston, Maine	Weshburn Bros.
	TIBLES THOMAS	TIL	770 7 11		We still Dios.
	JAMES B. DRAKE	1153	KSVG	1904 Bath, Maine	New England S.B.Co.
					Carleton, Norwood & Co.
	WINFIELD S. SHUSTER		KSVN	Rockport, Maine	
	EDWARD H. COLE		KSVB	Rockland, Maine	Cobb, Butler & Co.
		1704	KS'/D	Dath, Maine	Kelley-Spear Co.
		680	KS71J	Bath, Maine	Kelley-Spear Co.
	WILLIAM E. BOWEN JR.		KTCS	Bath, Maine	New England S.B.Co.
	LOUIS BOSSERT	605	KIDL DOL	Bath, Maine	Kelley-Spear Co.
	HELEN E. TAFT	1197	ETFS	Thomaston, Maine	Dunn & Elliot Co.
	WILLIAM J. QUILLIN	695	ETFW	Dath, Maine	New England S.B.Co.
	DOROTHY BELLE	488	KTGV	Leesburg, N.J.	Russell & Compton
	AUGUSTUS H. BABCOCK		KTHV	Brewer, Maine	E. & I.K. Stetson
house		1427	KTJG		Washburn Bros.
Sing Jungs	ELLEN LITTLE	999	MUTN	Rockland, Maine	Cobb, Butler & Co.
No.	CATHERINE M. MONAHAN		KTAD and	Mystic, Conn.	M.B.McDonald
	MYRTLE TUNNELL		KTLP	Millbridge, Meine	W. Sawyer
					later CHARLES E. DUNLAP)
	ADDISON E. DULLARD	1480	KTMB	Rockport, Maine	Carleton, Norwood & Co.

- /-	-1-1		
Name Gross	Signal	Year	Builders
Tons	Letters	Place built	
		1904 (continued)	
JUDGE BOYCE 698	KTMD	Sath, Maine	New England S.B.Co.
GEORGE W. TRUITT JR. 779	KTMF	Bath, Maine	Kelley-Spear Co.
CHARLES J. DUMAS 697	KTMG	Milford, Del.	W.C. Abbott
			AND THE RESERVE OF THE PARTY OF
E. STARR JONES 916	KTMH	Thomaston, Maine	Dunn & Elliot Co.
JOHN BOSSERT 601	KTND	Bath, Maine	Kelley-Spear Co.
MARY L. NEWHALL 1310	KTNQ	Bath, Maine	Crosby Navigation Co.
GEORGE F. SCANNELL 590	KTPF	Mystic, Conn.	M.B.McDonald
		1905	
ALICE MAY DAVENPORT 1144	KTPC	Bath, Maine	New England S.B.Co.
(rn GENERAL LEON JUR		NAME OF A STATE OF THE PARTY OF	
EVELYN W. HINKLY 698	KTPJ	Bath, Maine	Percy & Small
ORLEANS 751	KTPN		THE RESERVE OF THE PARTY OF THE
		Bath, Maine	Kelley-Spear Co
GOVERNOR POWERS 1962	KTQR	Rockland, Maine	Cobb, Butler & Co.
CAMILLA MAY PAGE 688	KTSV	Bath, Maine	James W. Hawley
AUGUSTA W. SNOW 830	KTSW	Brewer, Maine	E. & I.K. Stetson
CHARLES WHITTEMORE 693	KVBN	Mystic, Conn.	M.B.McDonald
FRANCES HYDE (st.aux) 739	KVBR	Bath, Maine	Kelley-Spear Co.
STILLMAN F. KELLEY 685	KVBQ	Thomaston. Maine	Washburn Bros.
THEOLINE 981	KVCB	Belfast, Maine	G. A. Gilchrist
(rn MONTE BIANCO)	*** 020		O. 22. O LICHI LO
RUTH B. COBB 620	KVCG	Dooleland Mains	Cabb Butlen 2 Co
		Rockland, Maine	Cobb, Butler & Co
CLARA DAVIS 680	KVCH	Mystic, Conn.	7.J.Baker
TIFTON 594	KVCN	Mystic, Conn.	M. B. McDonald
HERBERT D. MAXWELL 772	KVCT	Dath, Maine	New England S.B.Co.
ROBERT P. MURPHY 697	KVDQ	bath, Maine	Percy & Small
		1906	
HELEN B. CROSBY 1776	KVDT	Bath, Maine	E.S. Crosby
JUDGE PENNEWILL 439	YVFQ.	Bethel, Del.	J.M.C.Moore
AUBURN 633	KVFR	Phippsburg, Maine	F.S.Boyker
JOHN D. COLWELL 1042	KVLC	Rockland, Maine	Cobb. Butler & Co.
	KVNT	Bath, Maine	G.G.Deering Co.
(rn ANNA M. RECORD)	M. modest	not tank Little	TITANOR IL DARTIANI LILI
PENDLETON SISTERS 999	KVQC	Belfast, Maine	Pendleton Bros.
(rn ROSTELLAN)			es DUASEGGICO .
NORTHLAND (naph.aux.)2047	KVQT	Rockland, Maine	Cobb, Butler & Co.
JACKSONVILLE 620	KVTG	Jacksonville, Fla.	
		1907	
ALBERT W. ROBINSON 498	KWBQ	Sharptown, Md.	Sharptown Marine Ry. Co.
DEAN E. BROWN 719	KWJM	Rockland, Maine	Cobb, Butler & Co.
			The second secon
VICTORY 569	KWLC	Portland, Maine	William H. Reede
(rn FLORENCE M. BELD	ING)	braiticol 2001 I	(Casco SB Co.)
Malley-Epone Co.	ent	1908	TROTTELLO 170
BERTHA L. DOWNS 716	KWMF	Bath, Maine	Edward W. Hyde
(rn ATLAS)			
WILLIAM R. WILSON 1385	KWMH	Bath, Maine	G.G. Decring Co.
MARY MANSON GRUENER 715	KWPD	Bath, Maine	Edward W. Hyde
HORATIO G. FOSS 846	KWPN	Camden, N.J.	John L. Mills Const. Co.
JESSIE A. BISHOP 754	KWQN	Rockland, Maine	Cobb, Butler & Co.
	KWRH		
LEWISTON 814		Rockland, Maine	Cobb, Butler & Co.
STANLEY M. SEAMAN 1060	KWSV	Rockland, Maine	Cobb, Butler & Co.
. ad a reliar , deed	paint.	1909	ET STEEL HELD
ESTHER ANN 753	LBCD	Bath, Maine	J. W. Hawley
FLORENCE HOWARD 863	LBGC	Stonington, Conn.	W.J.Baker

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Name	Gross	Signal	Year	Bailden's
			Place built	
		5.00	1909 (continued)	A LITED OF THE PARTY
MELBOURN P. SMITH			Millbridge, Maine	Sawyer Bros.
MARY L. BAXTER (rn JOHN C. H)	10:36		Bath, Maine	G. G. Deering Co.
BARBARA	838		Chelsea, Mass.	Richard T. Green Co.
WILLIAM E. BURNHAM				Cobb, Butler & Co.
	buo.	e, Sunder	1910	al news doorsoys
ANNA R. HEIDRITTER	694	LBKG	Sharptown, Md.	Sharptown Marine Ry.Co.
(COHASSET KSGE	rebui	1t)		
			1911	To bomble a contraction
LYDIA MCLELLAN BAXTI				G. G. Decring Co.
MONTROSE W. HOUCK	1104	LCDK	Bath, Maine	G.G. Deering Co.
WILLIAM C. MAY	710	LOM		Kelley-Spear Co.
DUSTIN G. CRESSY	862	LOMH		Percy & Small. Inc.
	1000	(Linearit	1915	.S CHALAVA
CARL F. CRESSY	898	LFCQ	Bath, Maine	Percy & Small, Inc.
GEORGE S. SMITH	577	LFNQ	Fhippslucg, Maine	F.S.Bouker & Sons
			1916	2 0001
CHARLES D. LOVELAND			Bath, Maine	Percy & Small, Inc.
(rn ESTHER MEI				Donor: 2 Cmoll Inc
	844 1337	LGPM	Canden. Maine	Percy & Small, Inc.
			removed; rn CORNELIUS	
(Noma Gaodya (500 2500 D. ph. ()		1917	SORI DAME
ALSACE (oil aux.)	1091	French	Beaumont, Texas	Howland & Nelson
CHARLOTTE A. MAXWELL		LGSM	Camden, Haine	Robert L. Bean
RASSAPEAGE	971	LHDP	Brunswick, Georgia	Brunswick Marine Const.Co.
NISSEQUOGUE	971	LHCK	Brunswick, Georgia	Brunswick Marine Const.Co.
(rn JEAN)	77.00	₹ : ITATZ	The second secon	C & Cilebriot
NANCY HANKS MAUDE M. MOREY		LHFK	Thomaston, Maine Bath, Maine	G.A. Gilchrist
	632	LHDM	Pocomoke City, Md.	
JULIA LOFT	886	LGTC		Palmer Shipbuilding Co.
SAM C. MENGEL	915	LHBD	Bath. Maine	Percy & Small, Inc.
THEOLINE	594	LHRJ	Rockland, Maine	Cobb, Butler & Co.
MANUEL CARAGOL	880	LHRW	Noank, Conn.	Groton Iron Works
BLUE PETER		LHSB	Camden, Maine	Robert L. Lean
ALBERT F. PAUL	735	LHWF	Milford, Del.	W.G. Abbott S.B. Co.
CHARLES H. MacDOWELL		LJBN	Jacksonville, Fla.	G.S.Baxter & Co.
JESSIE G. NOYES ANNIE C. ROSS		LJBS LJCG	Thomaston, Maine Bath, Maine	Atlantic Coast Co. Percy & Small, Inc.
PURNELL T. WHITE	751	LJCH	Sharptown, Md.	Alonzo R. Conley
	1347	LJCT	Sevenneh, Georgia	Savannah Eng & Const.Co.
CITY OF PENSACOLA	705	LJDF	Orange, Texas	F.H. Swails
(auxiliary)		THE CO. DEE.	partial contract of	
		LJDH	Brunswick, Georgia	Brunswick Mar. Const. Corp.
		LJDQ	Savannah, Georgia	Georgia S.B.Co.
ABICE M. KAFKA	686	LJFQ	Phippsburg, Maine	F.S.Bowker & Sons
(rn FRIENDSHIP				Debent I Par
FLORENCE B. PHILLIPS LUTHER LITTLE	1234	LJGN LJKG	Camden, Maine Somerset, Mass.	Robert L. Bean Read Bros. Co.
JOAN KIELBERG	660	LJKS	Millbridge, Maine	Samper Shippard Corp.
ROSEMARY	901	LIMB		Meteo Mertinolich
ANNA LAURA MCKENNEY		LJMD	Boothbay Harbor, Me.	

(to be continued)

SAILING SHIPS LAUNCHED IN THE UNITED KINGDOM, 1889 (Arranged by builders)

Matl. Rig Gross First owners
Later Year Later owners Name

ter Year Later owners
S.P.Austin & Sons, West Dockyard, Sunderland
Steel Bark 1453 M.G.Amsinck, Hamburg

James Laing, Deptford Yard, Sunderland
Iron Bark 1272 P.H. Gayner, Sunderland

W. Pickersgill & Sons, Southwick, Sunderland

Iron Bark 1059 S. Wukeham & Son, Liverpool INCA BLUEBELL Steel Bark 846 James Tedford & Co., Belfast

Richardson, Duck & Co., Stockton Iron Works, Stockton-on-Tees

ULIDIA Iron Ship 2405 J. Porter (P. Iredale & Co.mgrs), Belfast SCOTTISH MOORS Iron Ship 2400 W.H.Ross & Co., Liverpool (COMPLETED 1890)

SVALAND S.O. Stray & Co. Christiansand. Norway

Charles Hill & Sons, Albion Dockyard, Bristol

GLADYS Steel Bark 985 Builders

SITA 1890 T.Beynon & Co.Lim., Newport

Steel Bark 1367 Troop & Son, St. John, New Brunswick

R.& J. Evans & Co., Brunswick Dock, Liverpool

TALCA Iron Bark 1136 S. Jakehan & Son, Liverpool

DAGNY 1908 Johan Beng, Grimsted, Norvey
HOLYHEAD Iron 4m.Bk 2336 W.Thomas & Co., Liverpool

W. H. Potter & Sons, Queens Dock, Liverpool SIERRA VENTANA Steel Ship 1853 Sierra Shipping Co.Lim., Liverpool

Talmsloy & Co. NAIAD

ALCYONE Iron 4m.Bk 2219 Poyes & Ruytor, Bremen

FALKLAND Iron 4m.Bk 2804 Macvicar, Marshall & Co., Liverpool

(Beams steel)

T. Royden & Sons, Queens Dock, Liverpool

HOLLINWOOD Steel 4m. Shp 2673 Sl. Shp. H. Lin. (Macvicar, Marshall & Co.), L'pool

Whiteheven Shipbuilding Co., Whiteheven

WINDERMERE Steel 4m.Bk 2833

LORD ROSEBERY 1890
REINBEK Knöhr & Burchard, Hamburg

ALICE A. LEIGH Steel 4m.Shp 3003 A.A.L.Ship.Co.(James Joyce), Liverpool

REWA George H. Seales, Wellington, N.Z.

ENGELHORN Steel 4n.Bk 2461 J.R.de Wolf & Son, Liverpool

R. Williamson & Son, Workington

WRAY CASTLE Steel Ship 1891 W.C.Sl.Shp.Co.Lim.(J.Chambers & Co.), L'pool.

GARTHWRAY 1918 Marine Nav. Co. of Canada Lim., Liverpool

ANDELANA Steel 4m. Shp 2512 A. S1. Shp. Co. Lin. (E. F. & W. Roberts), Liverpool

ENTERKIN Steel Ship 1698 T.C.Guthrie, Glasgow

BRUNEL Steel Ship 1637 Brunel Shipp.Co.Lim.(Leitch & Muir), Greenock

CRAIGERNE Steel 4m.Bk 1822 R.R.Paterson, Greenock

DALSWINTON Steel Ship 1628 T.C.Guthrie. & Co., Glasgow

W. Hamilton & Co., Port Glasgow

KING ROBERT Steel Ship 1705 J.A. Walker & Co., Glasgow Steel Ship 1807 W. Montgomery, London GRACE HARWAR

John Reid & Co., Port Glasgow

Steel Ship 2348 J.D. Clink, Greenock IREX Steel 4m.Bk 2361 Sir R.W. Cameron, Glasgow PURITAN

Russell & Co., Port Glasgow

DUNKERQUE Steel 4m.Bk 3152 A.D.Bordes & Fils, Bordeaux
PETER RICKMERS Steel 4m.Shp 2958 Rickmers Reismanlen Rhederi & Schiffbau A/G,

SIR ROBERT FERNIE Stl 4m.3k 2528 W.J.Fernie, London

ELIZABETH 1907 German
AIRD Steel 4m.Bk 2523 Shp.G.Co.Lim.(W.T.Dixon & Sns), Liverpool GLENCAIRD Steel 4m.Bk 2524 Shp.C.Co.Lim. (W.T.Dixon & Sns), Liverpool CAIRNIEHILL

CHARLES R. FLINT 1895 Flint & Co. (New York), Nicaragua

DUMFRIESSHIRE Steel 4m.Bk 2565 Thomas Law & Co., Glasgow
CRAIGEND Steel 4m.Bk 2272 North British Shipping Co., Glasgow
STANLEY Steel 4m.Bk 2210 Shp.S.Co.Lim.(G.N.Steeves), Liverpool
PORT DOUGLAS Steel Ship 1662 Crawford & Rowat, Glasgow

PORT DOUGLAS Steel Ship 1552 Grawford & Rowat, Glasgow GLENMARK Steel Ship 1666 Crawford & Rowat, Glasgow GLENMARK Steel Bark 1367 Dundee Shipowners, Dundee GLENESK Steel Bark 1369 Dundee Shipowners, Dundee HAWTHORNDANK Steel Bark 1309 A. Weir, Glasgow

J. H. HUSTEDE Iron Bark 1144 J. H. Hustede, Elsfleth, Germany

Birrell, Stenhouse & Co., Dumbarton Steel 4m.3k 2160 Thomas Law, Glasgow

Archibald MacMillan & Son, Dockyard, Dumbarton

NECTSFIELD Iron Ship 1894 F.H. Dangar, Sydney
HELGA Steel Ship 1727 Helga Ship Co.Lim.(J.W. Carmichael & Co.), Gl'gw.

QUEEN ELIZABETH Steel Ship 1784 Q.E. Ship Co. (J. Black & Co.), Glasgow

Barclay, Curle & Co., Whiteinch, Glasgow

GLAUCUS Steel 4m. Shp 2056 A.& J.H. Carmichael & Co., Greenock

ALMENDRAL A.D. Bordes & Fils, Dunkirk

JANET COWAN Steel 4m. Shp 2578 R. Shankland & Co., Greenock

BRABLOCH Steel Ship 2062 R. K. Holmes-Kerr (Aitkin, Lilburn & Co.mgr),

VINGA Norway

Steel 4m. Shp 2579 D. Shankland, Greenock

NORD Steel 4m.Shp 3163 A.D.Bordes & Fils, Dunkirk

Charles Connell & Co., Whiteinch, Glasgow
ORIENT Steel Ship 1663 A.Evers & Classen, Hamburg Steel Ship 1663 A. Evers & Classen, Hamburg OCCIDENT

ARETHUSA Steel Ship 1768 B. Wencke Söhne, Hamburg (COMPLETED 1890)

HIPPALOS 1916 Dampskibs Atlanterhavet A/S (E.L. Wessel-mgr), Iquique

HAZELBANK Steel Ship 1660 A Weir, Glasgow

Napier, Shanks & Bell, Yoker, Glasgow

TAMAR Steel Ship 2115 Devitt & Moore, London

Alexander Stephen & Sons, Linthouse, Glasgow
CARR ROCK Steel Ship 1657 James Cornfoot & Co., Glasgow

Steel 4m.Bk 3085 J & A. Roxburgh CARRADALE

A. Hall & Co., Footdee, Aberdeen
INVERUPIE Steel Bark 1384 George Milne & Co., Aberdeen

Alexander Stephen & Sons, Dundee NEWFIELD Iron frame steel plated Bark 1306 Shp.N.Co.Lim.(Brownells & Co.), L'pool

Grangemouth Dockyard Co., Grangemouth and Alloa

BANKHOLME (Alloa) Steel Bark 1229 Bank Shippg.Co.(7.Just & Co.mgr), L'pool

SIAM (Grangemouth) Steel Bark 658 A.C. Endvig, Kragerø, Norway

Charles J. Bigger, Foyle Shipva.cd, Londonderry

COUNTY ANTRIM Steel Bark 1241 R.J. Swyny, Liverpool

CAMPHILL Steel Bark 1240 C.Shipp.Co.Lim.(Squarey & Kendall), L'pool LONSDALE Steel Bark 1756 J.H.Iredale & Co., Liverpool

OSSEO Steel Bark 1463 B.H.McCorkell, Londonderry

Paul Rodgers, Carrickfergus

CREEK FISHER Steel 3m. Sch 135 James Fisher & Sons, Barrow

Workman, Clark & Co., Belfast
IREDALE Steel Bark 1574 J.Henry Iredale & Co., Liverpool

SHIPBUILDING IN 1838 AND 1889

Launchings in United Kingdom yards were still at a depressed rate in 1888, although by 1889 production was at the approximate level of 1886.

The largest vessel built during the biennium was the LIVERPOOL of 3400 gross and 5000 deadweight tons, launched on 7 December 1888 and completed in January 1889. After her, the largest hulls were the HOLKAR, launched 11 February 1888, and the NORD, also rated at 5000 tons deadweight, launched 7 December 1889.

Other noteworthy ships of 1888 were the four-masted schooner TACORA, which was rerigged as a four-masted barkentine after her first voyage; the DUNBOYNE, which had been laid down in 1883 to keep the apprentices and foremen employed at Whitehaven; and the VILLE DE DIEPPE, which is not listed in Lloyd's Register for 1889, but which was a tanker of 1700 tons deadweight, compartmented into 6 tanks with masts stepped on the tank tops.

Ships of 1888 later owned in this country included BUCKINGHAM, which was seized at San Francisco in 1917 as the OTTAWA of the Rederi A/G von 1896, was renamed twice by the Shipping Board and finally bought by her master, Capt.A.C. Wilvers, at Sydney in 1921, only to become a hulk there three years later. Then there was the LORD SHAFTESBURY, which was renamed GOLDEN GATE by Mayor Rolph of San

Francisco, and was scrapped there after his death in 1934; AMDREW WELCH, built for the Planters Line of San Francisco to Honolulu packets; FOOHNG SUEY, a Boston-Honolulu trader torpedoed as the GALENA in June 1917; and PASS OF BAIMAHA, captured by the Germans in 1916 while taking a cargo of cotton to Archangel under the ownership of the Harriss-Irby Cotton Co.

Among the 1889 launchings should be pointed out the PETER RICKMERS, a four-masted ship with 7 yards on each mast; and DUNKERQUE, another 5000-deadweight tonner, with cellular double bottom and a 1200-ton deep tank amidships.

VINDERMERE, as REINBEK, spent World War I at Santa Rosalia, Mexico, and was bought in 1921 by the Robert Dollar Co.of San Francisco; but they never found a use for her, and she was scrapped in 1928. SIR ROBERT FERNIE, as ELIZABETH, was hulked at Callao in 1909, rerigged at San Francisco in 1917, under Peruvian registry, and was lost in 1924, loading guano. CAIRNIEHILL took fire in New York Harbor in 1895 and was scuttled. Raisad, she was refitted as the CHARLES R. FLINT under Nicaraguan registry, only to become a total loss by fire in April 1896.